

## CLAIMS

1. A cooling device for an electronic component,  
comprising a thermoelectric conversion material disposed  
5 between two electrodes that function as a cathode and an  
anode and are electrically short-circuited, the cooling  
device being brought into contact with an electronic  
component requiring cooling so that one electrode side in  
contact with the thermoelectric conversion material becomes  
10 a low-temperature side and the other electrode side becomes  
a high-temperature side, a temperature difference between  
the two electrodes causing the thermoelectric conversion  
material to produce a thermoelectromotive force which  
generates current to cool the high-temperature side.
- 15 2. The cooling device for an electronic component  
according to Claim 1, wherein the thermoelectric conversion  
material is either a p-type material or an n-type material  
or a combination of p-type and n-type materials arranged  
alternately in series.
- 20 3. A cooling system comprising two or more stacked  
cooling devices according to Claim 1 or 2.
4. A cooling system comprising the cooling device  
according to Claim 1 or 2.